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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,470	07/21/2003	Debbi Drane	017227-0190	4517
22428	7590 09/08/2005		EXAM	INER
FOLEY ANI	D LARDNER		L1, BA	10 Q
SUITE 500 3000 K STRE	ET NW	•	ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007		1648		

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/622,470	DRANE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bao Qun Li	1648			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on July 1	✓ Responsive to communication(s) filed on <u>July 12, 2003 &amp; July 13, 205</u> .				
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1 and 44-99</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1, 44-99 are subject to restriction and/	or election requirement.	,			
Application Papers					
9) The specification is objected to by the Examiner	;				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in Application 10.					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
dee the attached detailed office action for a list of the definied copies not received.					
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Attachment(s)					
1) Untice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date					
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:				
Patent and Trademack Office					

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## **DETAILED ACTION**

Preliminary Amendment filed on July 21, 2003 has been acknowledged. Claims 2-43 were canceled. New claims 44-99 were added. Claims 1, and 44-99 are pending.

Upon considering the preliminary amendment filed on July 21, 2003, the previous Office Action on Restriction/Election is withdrawn and a new Office Action on Restriction/Election follow:

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1, 44-63, drawn to an immunogenic complex comprising a negative charged organic complex and one charged antigen of HCV, classified in class 424, subclass 228.1.
  - II. Claims 64-85, drawn to a vaccine composition comprising immunogenic complex comprising more than one HCV antigen, and a pharmaceutical acceptable carrier and/or diluents, classified in class 424, subclass 225.1.
  - III. Claims 86-89, drawn to a method of using an immunogenic complex, classified in class 424, subclass 93.1.
  - IV. Claims 90-99, drawn to a method for using a vaccine composition, classified in class 424, subclass 93.2.

If either group I or II is elected, a further Restriction/Election is required under 35 U.S.C. 121:

- A. The antigen is HCV core antigen, which corresponds to claims 44 and 66.
- B. The antigen is HCV Elantigen, which corresponds to claims 56 and 77.
- C. The antigen is HCV E2 antigen, which corresponds to claims 57 and 78.
- D. The antigen is HCV NS3antigen, which corresponds to claims 58 and 79.
- E. The antigen is HCV NS4a antigen, which is correspond to claims 59 and 80.
- F. The antigen is HCV NS4b antigen, which is correspond to claims 60 and 81.
- G. The antigen is HCV NS5a antigen, which is correspond to claims 61 and 82.
- H. The antigen is HCV NS5b antigen, which is correspond to claims 62 and 83.

The inventions are distinct, each from the other because of the following reasons:

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2. Inventions each of the groups A-G and H are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to structurally different products, e.g. the product of group A. is HCV core antigen, whereas the product of group B. is HCV E1, the product of group C is HCV E2, the product of group D is HCV NS3a, the product of group E is HCV NS4a, the product of group F, is HCV NS4b, the product of group G is HCV NS5a, the product of group H is NS5b. They are required different searches. For example, the search for HCV core antigen does not overlap with the search for HCV E1 or vise versa; the search for HCE E1 does not need to search HCV E2 or vise versa; the search for HCV NS3 does not need to search HCV NS4a or vise versa etc. They all have different patentability, and constitute different inventions. For example, searching HC core antigen cannot be used for determining the patentability of HCV NS3 for example.

- 3. Inventions each of the groups I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to structurally different products, e.g. the product of group I comprising one HCV antigen, whereas, the product of group III comprising more then one antigen in addition to other pharmaceutical composition. Therefore, they exhibit different patentable weights and require different search.
- 4. Inventions each of the groups III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to different methods using structurally different products, e.g. the product of group I comprising one HCV antigen, whereas, the product of group III comprising more then one antigen in addition to other pharmaceutical composition. Therefore, they exhibit different patentable weights and require different search.
- Inventions Group I and Group III are related as product and process of us
- 5. Inventions Group I and Group III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different

product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the process for using the product as claimed can be practiced with another materially different product, such as HCV DNA vaccine rather than an HCV polypeptide antigen.

- 6. Inventions Group II and Group IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the process for using the product as claimed can be practiced with another materially different product, such as HCV DNA vaccine rather than an HCV polypeptide antigen.
- 7. Because these inventions are distinct for the reasons given above, restriction for examination purposes as indicated is proper.
- 8. Applicants are reminded that in the Office Action the examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.
- 9. In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re*

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Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 11. This application contains claims directed to the following patentably distinct species of the claimed invention: a). phosphatidyl inositol, b). phosphatidyl glycerol, c). phosphatidic acid, d). cardiolipin.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 52 and 73 are generic.

12. This application contains claims directed to the following patentably distinct species of the claimed invention: i). Dipgsphoryl lipid, and b). monophosphoryl lipid A.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 54 and 75 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Qun Li whose telephone number is 571-272-0904. The examiner can normally be reached on 7:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BAOQUN LI, MD PATENT EXAMINER

09/04/2005